Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-06-15-16**

Date: 04/05/2021

Project Name : Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)

Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.

Customer's Reference : EE(Project)/Ynk Zone/ WO/161/2020-21

Date of Receipt : 29-04-21

Customer ID : Copping Concrete, (16th Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of Test : 04/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Copping Concrete, (16th Cross Road)	M15	27/04/2021	04/05/2021	149.69 X 149.79 X 150.38	22422	**8.836**	278.9	12.4	12.2
2	Copping Concrete, (16th Cross Road)	M15	27/04/2021	04/05/2021	150.57 X 150.70 X 151.33	22691	**8.533**	273.8	12.1	
3	Copping Concrete, (16th Cross Road)	M15	27/04/2021	04/05/2021	150.89 X 150.29 X 149.67	22678	**8.555**	274.6	12.1	

The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-06-15-16** **Date: 25/05/2021**

Project Name : Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)

Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.

Customer's Reference : EE(Project)/Ynk Zone/ WO/161/2020-21

Date of Receipt : 29-04-21

Customer ID : Copping Concrete, (16th Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cupping Concrete, (16th Cross Road)	M15	27/04/2021	25/05/2021	151.33 X 150.24 X 149.13	22735	**8.328**	409.0	18.0	17.7
2	Cupping Concrete, (16th Cross Road)	M15	27/04/2021	25/05/2021	151.94 X 151.33 X 150.85	22993	**8.676**	391.3	17.0	
3	Cupping Concrete, (16th Cross Road)	M15	27/04/2021	25/05/2021	150.02 X 150.01 X 151.19	22505	**8.695**	404.1	18.0	

**The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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R KARTHIK RECHAN
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Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-06-15-16** **Date: 04/05/2021**

Project Name : Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)

Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.

Customer's Reference : EE(Project)/Ynk Zone/ WO/161/2020-21

Date of Receipt : 29-04-21

Customer ID : Copping Concrete, (16th Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cupping Concrete, (16th Cross Road)	M15	27/04/2021	04/05/2021	150.04 X 151.65 X 150.33	22755	**8.836**	293.6	12.9	12.4
2	Cupping Concrete, (16th Cross Road)	M15	27/04/2021	04/05/2021	150.54 X 149.22 X 151.56	22464	**8.533**	272.8	12.1	
3	Cupping Concrete, (16th Cross Road)	M15	27/04/2021	04/05/2021	151.31 X 151.63 X 149.65	22944	**8.555**	277.9	12.1	

The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2021-06-15-16 **Date: 25/05/2021**

: Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)

: Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.

: EE(Project)/Ynk Zone/ WO/161/2020-21

: 29-04-21

: Copping Concrete, (16th Cross Road)

: 150X150X150 mm

: M15 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 25/05/2021

Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
M15	27/04/2021	25/05/2021	149.96 X 151.69 X 151.81	22747	**8.328**	393.4	17.3	17.4
M15	27/04/2021	25/05/2021	149.45 X 151.94 X 149.60	22708	**8.676**	403.1	17.8	
M15	27/04/2021	25/05/2021	150.97 X 149.49 X 150.32	22569	**8.695**	388.9	17.2	

as per standard requirements.

Asst. Executive Engineer
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-06-15-16** **Date: 09/03/2021**

Project Name : Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)

Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.

Customer's Reference : EE(Project)/Ynk Zone/ WO/161/2020-21

Date of Receipt : 04-03-21

Customer ID : Drain Bottom Slab Concrete, (Telecom Layout-13th Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete, (Telecom Layout-13th Cross Road)	M20	02/03/2021	09/03/2021	151.27 X 149.72 X 150.63	22649	**8.844**	427.0	18.9	18.7
2	Drain Bottom Slab Concrete, (Telecom Layout-13th Cross Road)	M20	02/03/2021	09/03/2021	151.37 X 151.19 X 150.17	22886	**8.069**	432.1	18.9	
3	Drain Bottom Slab Concrete, (Telecom Layout-13th Cross Road)	M20	02/03/2021	09/03/2021	149.15 X 149.63 X 150.44	22317	**8.171**	408.5	18.3	

The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-06-15-16** **Date: 30/03/2021**

Project Name : Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)

Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.

Customer's Reference : EE(Project)/Ynk Zone/ WO/161/2020-21

Date of Receipt : 04-03-21

Customer ID : Drain Bottom Slab Concrete, (Telecom Layout-13th Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete, (Telecom Layout-13th Cross Road)	M20	02/03/2021	30/03/2021	149.62 X 149.84 X 150.80	22419	**8.222**	519.0	23.1	23.0
2	Drain Bottom Slab Concrete, (Telecom Layout-13th Cross Road)	M20	02/03/2021	30/03/2021	150.21 X 150.15 X 151.13	22554	**8.433**	497.7	22.1	
3	Drain Bottom Slab Concrete, (Telecom Layout-13th Cross Road)	M20	02/03/2021	30/03/2021	151.03 X 149.29 X 150.79	22546	**8.910**	534.6	23.7	

The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-06-15-16** **Date: 17/03/2021**

Project Name : Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)

Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.

Customer's Reference : EE(Project)/Ynk Zone/ WO/161/2020-21

Date of Receipt : 12-03-21

Customer ID : Drain Side Wall Concrete, (Telecom Layout-13th Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of Test : 17/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete, (Telecom Layout-13th Cross Road)	M20	10/03/2021	17/03/2021	151.69 X 150.92 X 150.65	22893	**8.844**	428.7	18.7	18.5
2	Drain Side Wall Concrete, (Telecom Layout-13th Cross Road)	M20	10/03/2021	17/03/2021	150.18 X 149.98 X 151.95	22524	**8.069**	417.0	18.5	
3	Drain Side Wall Concrete, (Telecom Layout-13th Cross Road)	M20	10/03/2021	17/03/2021	150.34 X 149.79 X 150.08	22519	**8.171**	409.8	18.2	

The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-06-15-16** **Date: 07/04/2021**

Project Name : Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)

Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.

Customer's Reference : EE(Project)/Ynk Zone/ WO/161/2020-21

Date of Receipt : 12-03-21

Customer ID : Drain Side Wall Concrete, (Telecom Layout-13th Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete, (Telecom Layout-13th Cross Road)	M20	10/03/2021	07/04/2021	150.49 X 149.93 X 149.14	22563	**8.222**	527.7	23.4	23.1
2	Drain Side Wall Concrete, (Telecom Layout-13th Cross Road)	M20	10/03/2021	07/04/2021	150.70 X 150.72 X 151.08	22715	**8.433**	508.5	22.4	
3	Drain Side Wall Concrete, (Telecom Layout-13th Cross Road)	M20	10/03/2021	07/04/2021	151.24 X 150.61 X 149.09	22778	**8.910**	539.0	23.7	

The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-06-15-16** **Date: 23/03/2021**

Project Name : Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)

Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.

Customer's Reference : EE(Project)/Ynk Zone/ WO/161/2020-21

Date of Receipt : 18-03-21

Customer ID : Drain Side Wall Concrete, (9th Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete, (9th Cross Road)	M20	16/03/2021	23/03/2021	149.71 X 149.99 X 150.85	22455	**8.844**	404.8	18.0	18.4
2	Drain Side Wall Concrete, (9th Cross Road)	M20	16/03/2021	23/03/2021	149.25 X 150.50 X 149.28	22462	**8.069**	416.3	18.5	
3	Drain Side Wall Concrete, (9th Cross Road)	M20	16/03/2021	23/03/2021	149.61 X 151.87 X 151.96	22721	**8.171**	426.8	18.8	

The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-06-15-16** **Date: 13/04/2021**

Project Name : Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)

Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.

Customer's Reference : EE(Project)/Ynk Zone/ WO/161/2020-21

Date of Receipt : 18-03-21

Customer ID : Drain Side Wall Concrete, (9th Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete, (9th Cross Road)	M20	16/03/2021	13/04/2021	149.23 X 151.46 X 150.62	22603	**8.222**	523.7	23.2	23.0
2	Drain Side Wall Concrete, (9th Cross Road)	M20	16/03/2021	13/04/2021	151.33 X 151.88 X 150.21	22983	**8.433**	517.0	22.5	
3	Drain Side Wall Concrete, (9th Cross Road)	M20	16/03/2021	13/04/2021	150.84 X 151.32 X 151.07	22825	**8.910**	530.0	23.2	

The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-06-15-16** **Date: 03/04/2021**

Project Name : Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)

Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.

Customer's Reference : EE(Project)/Ynk Zone/ WO/161/2020-21

Date of Receipt : 29-03-21

Customer ID : Culvert Bottom Slab Concrete, (13th Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete, (13th Cross Road)	M20	27/03/2021	03/04/2021	149.38 X 151.30 X 151.64	22601	**8.844**	426.2	18.9	18.7
2	Culvert Bottom Slab Concrete, (13th Cross Road)	M20	27/03/2021	03/04/2021	151.87 X 149.82 X 149.82	22753	**8.069**	427.3	18.8	
3	Culvert Bottom Slab Concrete, (13th Cross Road)	M20	27/03/2021	03/04/2021	150.38 X 149.23 X 149.06	22440	**8.171**	414.9	18.5	

The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-06-15-16** **Date: 24/04/2021**

Project Name : Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)

Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.

Customer's Reference : EE(Project)/Ynk Zone/ WO/161/2020-21

Date of Receipt : 29-03-21

Customer ID : Culvert Bottom Slab Concrete, (13th Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete, (13th Cross Road)	M20	27/03/2021	24/04/2021	151.82 X 149.14 X 150.82	22641	**8.222**	542.2	23.9	23.2
2	Culvert Bottom Slab Concrete, (13th Cross Road)	M20	27/03/2021	24/04/2021	151.70 X 151.71 X 151.21	23014	**8.433**	521.6	22.7	
3	Culvert Bottom Slab Concrete, (13th Cross Road)	M20	27/03/2021	24/04/2021	151.07 X 149.06 X 150.66	22519	**8.910**	520.8	23.1	

The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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BBMP, Bangalore - 92

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-06-15-16** **Date: 10/04/2021**

Project Name : Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)

Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.

Customer's Reference : EE(Project)/Ynk Zone/ WO/161/2020-21

Date of Receipt : 05-04-21

Customer ID : Culvert Side Wall Concrete, (13th Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of Test : 10/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete, (13th Cross Road)	M20	03/04/2021	10/04/2021	150.26 X 151.94 X 151.10	22830	**8.844**	420.2	18.4	18.6
2	Culvert Side Wall Concrete, (13th Cross Road)	M20	03/04/2021	10/04/2021	150.26 X 149.70 X 151.74	22493	**8.069**	418.5	18.6	
3	Culvert Side Wall Concrete, (13th Cross Road)	M20	03/04/2021	10/04/2021	150.02 X 149.72 X 149.66	22462	**8.171**	424.3	18.9	

The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Quality Manager

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Format No: CP/TF/0

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-06-15-16** **Date: 01/05/2021**

Project Name : Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)

Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.

Customer's Reference : EE(Project)/Ynk Zone/ WO/161/2020-21

Date of Receipt : 05-04-21

Customer ID : Culvert Side Wall Concrete, (13th Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete, (13th Cross Road)	M20	03/04/2021	01/05/2021	149.33 X 149.10 X 149.01	22265	**8.222**	523.1	23.5	23.3
2	Culvert Side Wall Concrete, (13th Cross Road)	M20	03/04/2021	01/05/2021	150.86 X 151.52 X 151.24	22858	**8.433**	520.9	22.8	
3	Culvert Side Wall Concrete, (13th Cross Road)	M20	03/04/2021	01/05/2021	149.49 X 149.88 X 149.85	22407	**8.910**	530.3	23.7	

The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : **CP-RW-2021-06-15-16** **Date: 15-05-21**

Project Name : Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)

Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.

Customer Reference : EE(Project)/Ynk Zone/ WO/161/2020-21

Date of Receipt : 13-05-21

Type of Mix : GSB (Granular Sub Base)

Date of test : 13-05-21

Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	997	997	9.97	90.03	80-100
26.5	1685	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1764	7228	72.28	27.72	20-40
0.425	1666	8894	88.94	11.06	10-25
0.075	1106	10000	100.00	0.00	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2021-06-15-16** **Date: 21-05-21**
Project Name	:	Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)
Agency	:	Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.
Customer Reference	:	EE(Project)/Ynk Zone/ WO/161/2020-21
Date of Receipt	:	19-05-21
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	19-05-21
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

"The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID : **CP-RW-2021-06-15-16**

Project Name : Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur) **Date: 21-05-21**

Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.

Customer Reference : EE(Project)/Ynk Zone/ WO/161/2020-21

Date of Receipt : 19-05-21

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 19-05-21

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

* The results obtained are satisfactory as per standard requirements.

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2021-06-15-16**	**Date: 21-05-21**
Project Name	:	Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)	
Agency	:	Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.	
Customer Reference	:	EE(Project)/Ynk Zone/ WO/161/2020-21	
Date of Receipt	:	19-05-21	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	19-05-21	

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

*The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : CP-RW-2018-

Date: 31-05-21

Project Name : Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)

Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.

Customer Reference : EE(Project)/Ynk Zone/ WO/161/2020-21

Date of Receipt : 28-05-21

Type of Mix : DBM-Plant (Dense Bituminous Macadam)

Date of test : 28-05-21

Weight of Sample : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0	100	100
26.5	250	250	5.00	95.00	90-100
19	350	600	12.00	88.00	71-95
13.2	450	1050	21.00	79.00	56-80
4.75	1750	2800	56.00	44.00	38-54
2.36	400	3200	64.00	36.00	28-42
0.3	1350	4550	91.00	9.00	7-21
0.075	250	4800	96.00	4.00	2-8
PAN	200	5000	0.00	0	0

The results obtained are satisfactory as per standard requirements.

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR DENSE BITUMINOUS MACADAM

Lab ID	:	**CP-RW-2018-** **Date: 31-05-21**
Project Name	:	Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)
Agency	:	Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.
Customer Reference	:	EE(Project)/Ynk Zone/ WO/161/2020-21
Date of Receipt	:	28-05-21
Type of Mix	:	DBM (Dense Bituminous Macadam)
Date of test	:	28-05-21

Table 500-6 : Physical Requirements fo Coarse Aggregate for Dense Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	14.0	Combined Flakiness & Elongation Index for DBM is Maximum 35%	IS:2386 Part I
	Elongation Index	14.0		
Strength	Aggregate Impact Value	20.0	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.58	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.38	Maximum 2%	IS:2386 Part III

The results obtained are satisfactory as per standard requirements.

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